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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/761,317	01/17/2001	Yoshiyuki Tonami	36856.406	4649
75	90 12/06/2002			
Keating & Bennett LLP			EXAMINER	
10400 Eaton Place, Suite 312 Fairfax, VA 22030			KACKAR, RAM N	
			ART UNIT	PAPER NUMBER
			1763	3
			DATE MAILED: 12/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 09/761,317 Offic Action Summary Examiner Ram N Kackar Applicant(s) TONAMI ET AL. Art Unit 1763					
Offic Action Summary Examiner Art Unit					
Ram N Kackar 1763					
Tall Wallet					
The MAILING DATE of this c mmunication appears on the cover sheet with the correspondence add	ress				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM					
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	nmunication.				
Status					
1) Responsive to communication(s) filed on <u>17 January 2001</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims	ments is				
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) \boxtimes The drawing(s) filed on <u>17 January 2001</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examine	r.				
If approved, corrected drawings are required in reply to this Office action.					
12) ☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No	24				
 3. Copies of the certified copies of the priority documents have been received in this National Sapplication from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 	Stage				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional	application).				
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:					

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DETAILED ACTION

Double Patenting

1. Claims 15 and 19 are objected to under 37 CFR 1.75 as being duplicate of claims 14 and 18. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims1- 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirano et al (US 5550068) in view of the applicants admitted prior art (Fig 1a-1d and 2).

Hirano et al disclose a process for wiring formation and disclose a feeder film partially on a substrate (Fig 2a-2), a plating base partially overlapping the feeder film (Fig 2k-11), the plating base film formed by sputtering (Col 3 lines 49-53) in an opening made by masking using photoresist material (Col 3 lines 38-40) and forming a plated wiring on the base film (Fig 2m-12 and Col 3 lines 59-62). The plating base film is disclosed to provide improved adhesion (Col 3 lines 56-58).



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Hirano et al do not expressly disclose removing the feeder film. However, it is well known in the art that the sole purpose of a feeder film is to connect all the dies on the substrate to power supply for electrolytic plating. After electrolytic plating these film lines made for the purpose of connecting electricity are at least partially etched away to disconnect from the main feeder line.

This conventional method of removing the feeder film is disclosed in Applicants admitted prior art (Page 2 line 15) by wet etching.

Therefore it would have been obvious to one of ordinary skill in the art at the time invention was made to remove this feeder film at least partially to disconnect from the main feeder line.

Regarding claims 5, 11, 14 and 18, Hirano et al do not expressly disclose the width of the base film to be greater than the width of the feeder film. However they disclose the control of resistance of the base film by controlling thickness. As the width of the base film controls the resistance in the same way, it would have been obvious to one of ordinary skill in the art at the time invention was made to increase the width of the base film to decrease its resistance.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 4293637, 5679234 and JP 04262536.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N Kackar whose telephone number is 703 305 3996. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on 703 308 1633. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9310 for regular communications and 703 872 9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0661.

RK December 2, 2002

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